DEPARTMENT OF THE NAVY



JOINT BASE ANACOSTIA-BOLLING 20 MACDILL BLVD, SUITE 300 WASHINGTON, D.C. 20032-7711

> 5090 Ser J4/EV7 September 6, 2016

> > Alhamy

Karen Crumlish, Branch Chief Drinking Water Branch (3WP21) Water Protection Division U.S. EPA Region 3 1650 Arch Street Philadelphia, PA 19103

Ms. Crumlish:

Enclosed is the Stage 2 DBP Report for the third quarter of 2016 for the Joint Base Anacostia-Bolling (JBAB) Anacostia side. Included with the results are the certificates of analysis and the Chain of Custody Forms.

Based on the JBAB-Anacostia sample results, the operational evaluation level (OEL) was not exceeded nor was there a TTHM MCL violation for this quarter.

Please mail all correspondence to:

ATTN: Director, Installation Environmental Program
Department of the Navy
PWD- Joint Base Anacostia-Bolling
370 Brookley Avenue SW
JBAB, Washington, DC 20032-0101

If you have any questions or require further information, please contact Ms. Brooke Shaffer, of my staff, at (202) 404-1273 or via email at brooke.shaffer@navy.mil.

Sincerely,

MADINA M. ALHARAZIM

By direction

Enclosures:

1. Stage 2 DBP Summary Report, August 2016

2. Stage 2 DBP Sample Analysis Results and Chain of Custodies, August 2016

Water System: JBAB-Anacostia PWSID: DC0000004

Report Period: 3rd Quarter 2016

Steps: 1. Use data from three previous quarters

2. Enter sample date and results for current quarter of monitoring in the blue column.

3. Summarize results for the quarter. The number of samples should include the number of any repeat samples.

Total Trihalomethanes (TTHM)

Reported as mg/L or ppm

Number of TTHM samples taken per quarter: 2
Operational Evaluation Levels exceeded (Yes/No): No
TTHM MCL violations: 0

		Three Most Recent	Quarters of Samplir	ng Results	Current Quarter		
Sch	neduled Sample Week	November 2016	Febuary 2016	May 2016	August 2016		
	Actual Sample Date:	Nov. 3, 2015	Feb. 2, 2016	May 3, 2016	August 2, 2016		
						Operational Evaluation	Locational Running Annual
Location ID	Location Name					Level (OEL)	Average (LRAA)
Alt A EP (Bldg 414)	Hallway Sink	0.0389	0.0154	0.0748	0.0648	0.055	0.048
2A (Bldg 413)	Kitchen Sink	0.0378	0.0146	0.068	0.0659	0.054	0.047
						If TTHM OEL is > 0.080,	If TTHM LRAA is > 0.080,
						perform Operational	·
						Evaluation.	MCL violation occurred.

Five Haloacetic Acids (HAA5)

Reported as mg/L or ppm

Number of HAA5 samples taken per quarter: 2
Operational Evaluation Levels exceeded (Yes/No): No
HAA5 MCL violations: 0

		Three Most Recent	Quarters of Samplir	ng Results	Current Quarter		
Sch	eduled Sample Week	November 2015	February 2016	May 2016	August 2016		
	Actual Sample Date:	Nov. 3, 2015	Feb. 2, 2016	May 3, 2016	August 2, 2016		
						Operational Evaluation	Locational Running Annual
Location ID	Location Name					Level (OEL)	Average (LRAA)
Alt A EP (Bldg 414)	Hallway Sink	0.0267	0.0106	0.0456	0.0470	0.038	0.032
2A (Bldg 413)	Kitchen Sink	0.0264	0.0104	0.0477	0.0462	0.038	0.033
•						If HAA5 OEL is > 0.060,	If HAA5 LRAA is > 0.060,
						perform Operational	MCL violation occurred.
						Evaluation.	MCL violation occurred.





NELAP Certifications: NJ PA010 , NY 11759 , PA 22-293 DoD ELAP: A2LA 0818.01 State Certifications: DE ID 11 , MA PA0102 , MD 128 , VA 460157 , WV 343

August 10, 2016

Mr. Kosala DeSilva Inspection Experts, Inc. 8711 Arrowtip Lane Lewis Center, OH 43035

Certificate of Analysis

Project Name: NAVFAC Regional Sampling Workorder: 2164234

Purchase Order: Workorder ID: NAVFAC Regional Sampling

Dear Mr. DeSilva:

Enclosed are the analytical results for samples received by the laboratory on Wednesday, August 3, 2016.

The ALS Environmental laboratory in Middletown, Pennsylvania is a National Environmental Laboratory Accreditation Program (NELAP) accredited laboratory and as such, certifies that all applicable test results meet the requirements of NELAP.

If you have any questions regarding this certificate of analysis, please contact Ms. Debra J. Musser (Project Coordinator) at (717) 944-5541.

Analyses were performed according to our laboratory's NELAP-approved quality assurance program and any applicable state requirements. The test results meet requirements of the current NELAP standards or state requirements, where applicable. For a specific list of accredited analytes, refer to the certifications section of the ALS website at www.alsglobal.com/en/Our-Services/Life-Sciences/Environmental/Downloads.

This laboratory report may not be reproduced, except in full, without the written approval of ALS Environmental.

ALS Spring City: 10 Riverside Drive, Spring City, PA 19475 610-948-4903

CC: Mr. George Tsamoulales

This page is included as part of the Analytical Report and must be retained as a permanent record thereof.

Ms. Debra J. Musser Project Coordinator

lebra J Musser

ALS Environmental Laboratory Locations Across North America

Canada: Burlington · Calgary · Centre of Excellence · Edmonton · Fort McMurray · Fort St. John · Grande Prairie · London · Mississauga · Richmond Hill · Saskatoon · Thunder Bay Vancouver Waterloo · Winnipeg · Yellowknife United States: Cincinnati · Everett · Fort Collins · Holland · Houston · Middletown · Salt Lake City · Spring City · York Mexico: Monterrey

Report ID: 2164234 - 8/10/2016 Page 1 of 8





NELAP Certifications: NJ PA010 , NY 11759 , PA 22-293 DoD ELAP: A2LA 0818.01 State Certifications: DE ID 11 , MA PA0102 , MD 128 , VA 460157 , WV 343

SAMPLE SUMMARY

Workorder: 2164234 NAVFAC Regional Sampling

Lab ID	Sample ID	Matrix	Date Collected	Date Received	Collected By
2164234001	2A-ANA-413	Drinking Water	8/2/2016 08:39	8/3/2016 21:30	Collected by Client
2164234002	ANA-414	Drinking Water	8/2/2016 09:12	8/3/2016 21:30	Collected by Client
2164234003	ANA-Field Blank	Drinking Water	8/2/2016 09:02	8/3/2016 21:30	Collected by Client
2164234004	ANA-Trip Blank	Drinking Water	8/2/2016 08:00	8/3/2016 21:30	Collected by Client

Canada: Burlington · Calgary · Centre of Excellence · Edmonton · Fort McMurray · Fort St. John · Grande Prairie · London · Mississauga · Richmond Hill · Saskatoon · Thunder Bay Vancouver Waterloo · Winnipeg · Yellowknife United States: Cincinnati · Everett · Fort Collins · Holland · Houston · Middletown · Salt Lake City · Spring City · York Mexico: Monterrey

Report ID: 2164234 - 8/10/2016 Page 2 of 8





NELAP Certifications: NJ PA010 , NY 11759 , PA 22-293 DoD ELAP: A2LA 0818.01 State Certifications: DE ID 11 , MA PA0102 , MD 128 , VA 460157 , WV 343

SAMPLE SUMMARY

Workorder: 2164234 NAVFAC Regional Sampling

Notes

- -- Samples collected by ALS personnel are done so in accordance with the procedures set forth in the ALS Field Sampling Plan (20 Field Services Sampling Plan).
- -- All Waste Water analyses comply with methodology requirements of 40 CFR Part 136.
- -- All Drinking Water analyses comply with methodology requirements of 40 CFR Part 141.
- -- Unless otherwise noted, all quantitative results for soils are reported on a dry weight basis.
- -- The Chain of Custody document is included as part of this report.
- -- All Library Search analytes should be regarded as tentative identifications based on the presumptive evidence of the mass spectra. Concentrations reported are estimated values.
- -- Parameters identified as "analyze immediately" require analysis within 15 minutes of collection. Any "analyze immediately" parameters not listed under the header "Field Parameters" are preformed in the laboratory and are therefore analyzed out of hold time.
- -- Method references listed on this report beginning with the prefix "S" followed by a method number (such as S2310B-97) refer to methods from "Standard Methods for the Examination of Water and Wastewater".
- -- For microbiological analyses, the "Prepared" value is the date/time into the incurbator and the "Analyzed" value is the date/time out the incubator.

Standard Acronyms/Flags

- J Indicates an estimated value between the Method Detection Limit (MDL) and the Practical Quantitation Limit (PQL) for the analyte
- U Indicates that the analyte was Not Detected (ND)
- N Indicates presumptive evidence of the presence of a compound
- MDL Method Detection Limit
- PQL Practical Quantitation Limit
- RDL Reporting Detection Limit
- ND Not Detected indicates that the analyte was Not Detected at the RDL
- Cntr Analysis was performed using this container
- RegLmt Regulatory Limit
- LCS Laboratory Control Sample
- MS Matrix Spike
- MSD Matrix Spike Duplicate
- DUP Sample Duplicate
- %Rec Percent Recovery
- RPD Relative Percent Difference
- LOD DoD Limit of Detection
- LOQ DoD Limit of Quantitation
 DL DoD Detection Limit
 - I Indicates reported value is greater than or equal to the Method Detection Limit (MDL) but less than the Report Detection Limit (RDL)
- (S) Surrogate Compound
- NC Not Calculated
- * Result outside of QC limits

ALS Environmental Laboratory Locations Across North America

Canada: Burlington · Calgary · Centre of Excellence · Edmonton · Fort McMurray · Fort St. John · Grande Prairie · London · Mississauga · Richmond Hill · Saskatoon · Thunder Bay Vancouver Waterloo · Winnipeg · Yellowknife United States: Cincinnati · Everett · Fort Collins · Holland · Houston · Middletown · Salt Lake City · Spring City · York Mexico: Monterrey

Report ID: 2164234 - 8/10/2016 Page 3 of 8





NELAP Certifications: NJ PA010 , NY 11759 , PA 22-293 DoD ELAP: A2LA 0818.01 State Certifications: DE ID 11 , MA PA0102 , MD 128 , VA 460157 , WV 343

ANALYTICAL RESULTS

Workorder: 2164234 NAVFAC Regional Sampling

Lab ID: 2164234001 Date Collected: 8/2/2016 08:39 Matrix: Drinking Water

Sample ID: 2A-ANA-413 Date Received: 8/3/2016 21:30

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	Ву	Cntr
		ag	0.110				-,			
VOLATILE ORGANICS										
Bromodichloromethane	18.4		ug/L	0.50	EPA 524.2			8/8/16 19:01	DD	Α
Bromoform	ND		ug/L	0.50	EPA 524.2			8/8/16 19:01	DD	Α
Chlorodibromomethane	5.9		ug/L	0.50	EPA 524.2			8/8/16 19:01	DD	Α
Chloroform	41.6		ug/L	0.50	EPA 524.2			8/8/16 19:01	DD	Α
Total Trihalomethanes	65.9		ug/L	0.50	EPA 524.2			8/8/16 19:01	DD	Α
Surrogate Recoveries	Results	Flag	Units	Limits	Method	Prepared	Ву	Analyzed	Ву	Cntr
1,2-Dichlorobenzene-d4 (S)	82		%	70 - 130	EPA 524.2			8/8/16 19:01	DD	Α
4-Bromofluorobenzene (S)	82.5		%	70 - 130	EPA 524.2			8/8/16 19:01	DD	Α
HALOACETIC ACID										
TOTAL HAA	46.2		ug/L	1.0	EPA 552.2	8/8/16 06:40	KMR	8/9/16 18:12	KJH	D1
Bromochloroacetic NOT FOR PA	8.2		ug/L	1.0	EPA 552.2	8/8/16 06:40	KMR	8/9/16 18:12	KJH	D1
Dibromoacetic	1.7		ug/L	1.0	EPA 552.2	8/8/16 06:40	KMR	8/9/16 18:12	KJH	D1
Dichloroacetic	25.5		ug/L	1.0	EPA 552.2	8/8/16 06:40	KMR	8/9/16 18:12	KJH	D1
Monobromoacetic	ND		ug/L	1.0	EPA 552.2	8/8/16 06:40	KMR	8/9/16 18:12	KJH	D1
Monochloroacetic	3.5		ug/L	2.0	EPA 552.2	8/8/16 06:40	KMR	8/9/16 18:12	KJH	D1
Trichloroacetic	15.5		ug/L	1.0	EPA 552.2	8/8/16 06:40	KMR	8/9/16 18:12	KJH	D1
Surrogate Recoveries	Results	Flag	Units	Limits	Method	Prepared	Ву	Analyzed	Ву	Cntr
2,3-Dibromopropionic Acid (S)	126		%	70 - 130	EPA 552.2	8/8/16 06:40	KMR	8/9/16 18:12	KJH	D1

Debra J Musser

Ms. Debra J. Musser

Project Coordinator

Report ID: 2164234 - 8/10/2016 Page 4 of 8





NELAP Certifications: NJ PA010 , NY 11759 , PA 22-293 DoD ELAP: A2LA 0818.01 State Certifications: DE ID 11 , MA PA0102 , MD 128 , VA 460157 , WV 343

ANALYTICAL RESULTS

Workorder: 2164234 NAVFAC Regional Sampling

Lab ID: 2164234002 Date Collected: 8/2/2016 09:12 Matrix: Drinking Water

Sample ID: ANA-414 Date Received: 8/3/2016 21:30

Parameters	Results	Flag	Units	RDL	Method	Prepared	Ву	Analyzed	Ву	Cntr
VOLATILE ORGANICS										
Bromodichloromethane	18.3		ug/L	0.50	EPA 524.2			8/8/16 18:37	DD	Α
Bromoform	ND		ug/L	0.50	EPA 524.2			8/8/16 18:37	DD	Α
Chlorodibromomethane	6.2		ug/L	0.50	EPA 524.2			8/8/16 18:37	DD	Α
Chloroform	40.4		ug/L	0.50	EPA 524.2			8/8/16 18:37	DD	Α
Total Trihalomethanes	64.8		ug/L	0.50	EPA 524.2			8/8/16 18:37	DD	Α
Surrogate Recoveries	Results	Flag	Units	Limits	Method	Prepared	Ву	Analyzed	Ву	Cntr
1,2-Dichlorobenzene-d4 (S)	86.9		%	70 - 130	EPA 524.2			8/8/16 18:37	DD	Α
4-Bromofluorobenzene (S)	88.2		%	70 - 130	EPA 524.2			8/8/16 18:37	DD	Α
HALOACETIC ACID										
TOTAL HAA	47.0		ug/L	1.0	EPA 552.2	8/8/16 06:40	KMR	8/9/16 19:22	KJH	D1
Bromochloroacetic NOT FOR PA	8.9		ug/L	1.0	EPA 552.2	8/8/16 06:40	KMR	8/9/16 19:22	KJH	D1
Dibromoacetic	1.9		ug/L	1.0	EPA 552.2	8/8/16 06:40	KMR	8/9/16 19:22	KJH	D1
Dichloroacetic	26.6		ug/L	1.0	EPA 552.2	8/8/16 06:40	KMR	8/9/16 19:22	KJH	D1
Monobromoacetic	ND		ug/L	1.0	EPA 552.2	8/8/16 06:40	KMR	8/9/16 19:22	KJH	D1
Monochloroacetic	3.5		ug/L	2.0	EPA 552.2	8/8/16 06:40	KMR	8/9/16 19:22	KJH	D1
Trichloroacetic	15.1		ug/L	1.0	EPA 552.2	8/8/16 06:40	KMR	8/9/16 19:22	KJH	D1
Surrogate Recoveries	Results	Flag	Units	Limits	Method	Prepared	Ву	Analyzed	Ву	Cntr
2,3-Dibromopropionic Acid (S)	116		%	70 - 130	EPA 552.2	8/8/16 06:40	KMR	8/9/16 19:22	KJH	D1

Debra J Musser

Ms. Debra J. Musser

Project Coordinator

Report ID: 2164234 - 8/10/2016 Page 5 of 8





NELAP Certifications: NJ PA010 , NY 11759 , PA 22-293 DoD ELAP: A2LA 0818.01 State Certifications: DE ID 11 , MA PA0102 , MD 128 , VA 460157 , WV 343

ANALYTICAL RESULTS

Workorder: 2164234 NAVFAC Regional Sampling

Lab ID: 2164234003 Date Collected: 8/2/2016 09:02 Matrix: Drinking Water

Sample ID: ANA-Field Blank Date Received: 8/3/2016 21:30

Parameters	Results	Flag	Units	RDL	Method	Prepared	Ву	Analyzed	Ву	Cntr
VOLATILE ORGANICS										
Bromodichloromethane	ND		ug/L	0.50	EPA 524.2			8/8/16 18:13	DD	Α
Bromoform	ND		ug/L	0.50	EPA 524.2			8/8/16 18:13	DD	Α
Chlorodibromomethane	ND		ug/L	0.50	EPA 524.2			8/8/16 18:13	DD	Α
Chloroform	ND		ug/L	0.50	EPA 524.2			8/8/16 18:13	DD	Α
Total Trihalomethanes	ND		ug/L	0.50	EPA 524.2			8/8/16 18:13	DD	Α
Surrogate Recoveries	Results	Flag	Units	Limits	Method	Prepared	Ву	Analyzed	Ву	Cntr
1,2-Dichlorobenzene-d4 (S)	85.1		%	70 - 130	EPA 524.2			8/8/16 18:13	DD	Α
4-Bromofluorobenzene (S)	87.7		%	70 - 130	EPA 524.2			8/8/16 18:13	DD	Α

Ms. Debra J. Musser

Debra J Musser

Project Coordinator

Report ID: 2164234 - 8/10/2016 Page 6 of 8





NELAP Certifications: NJ PA010 , NY 11759 , PA 22-293 DoD ELAP: A2LA 0818.01 State Certifications: DE ID 11 , MA PA0102 , MD 128 , VA 460157 , WV 343

ANALYTICAL RESULTS

Workorder: 2164234 NAVFAC Regional Sampling

Lab ID: 2164234004 Date Collected: 8/2/2016 08:00 Matrix: Drinking Water

Sample ID: ANA-Trip Blank Date Received: 8/3/2016 21:30

Parameters	Results	Results Flag Units		RDL	Method	Prepared	Ву	Analyzed	Ву	Cntr
VOLATILE ORGANICS										
Bromodichloromethane	ND		ug/L	0.50	EPA 524.2			8/8/16 17:49	DD	Α
Bromoform	ND		ug/L	0.50	EPA 524.2			8/8/16 17:49	DD	Α
Chlorodibromomethane	ND		ug/L	0.50	EPA 524.2			8/8/16 17:49	DD	Α
Chloroform	ND		ug/L	0.50	EPA 524.2			8/8/16 17:49	DD	Α
Total Trihalomethanes	ND		ug/L	0.50	EPA 524.2			8/8/16 17:49	DD	Α
Surrogate Recoveries	Results	Flag	Units	Limits	Method	Prepared	Ву	Analyzed	Ву	Cntr
1,2-Dichlorobenzene-d4 (S)	84.7		%	70 - 130	EPA 524.2			8/8/16 17:49	DD	Α
4-Bromofluorobenzene (S)	85.6		%	70 - 130	EPA 524.2			8/8/16 17:49	DD	Α

Debra J Musser Ms. Debra J. Musser

Project Coordinator

Report ID: 2164234 - 8/10/2016 Page 7 of 8

* G=Grab; C=Composite

											- sa A								- 1.
A	8					CI	HAIN	OF CL	JSTO	DY/ T	SOL	Generated by A	ALS	coc	#:1	H 1111 1111			11 .
(ALS) Environmental	i-100 s overskýhladom				ALL SHA	DED AR	EAS MU	ST BE 0	OMPLE	TED BY	THE CLI	ENT /		ALS		1 (H) (H)		MM.	M i
34 Dogwood Lene w Middletown, PA 17057 w 717	.944.5541 w Fax:	717.944.1430	_							THE BA				ALO	- W			TON THE	in F
Client Name: Inspection Experts, Inc J	BAB			ntainer Type	VOA	Amber									Ré *	2 1	6 4 2	3 4	y cáb)
Address: 9220 Rumsey Rd, Bay 5				ntainer Size	40mL	250mL									Cooler T	emp:	Therm II	2	(2
Columbia, MD 21045			Pres	servative	ASC+HCI	NH ₄ CI									No. of Coo		_	y N	-dnitial
Contact: Kosala De Silva							AN	ALYSES/	METHOD	REQUES	TED				-		eals Present?	خَا لَـٰ	NES
Phone#: 410-715-3939(O)			Γ	Г										T	1	(If present)	Seals Intact?	ヿ゙゙゙゙゙゙゙゙゙゙゙	17
Project Name#: NAVFAC Regional / JBAB 15-0011-211			1	ı	_											Rece	eived on Ice?		
Bill To: kosala@ieinc.net			1	ı	24.2)	23									COC/Lab	els Comple	rte/Accurate?		
TAT X Normal-Standard TAT is 10-12 business days.					Stage II TTHMs (EPA 524.2)	Stage II HAAs (EPA 552.2)							3			Cont. in (Good Cond.?	ЦL	$\perp \perp$
Rush-Subject to ALS approval and surcharges.		-		ı	S (EF	(EP/				1			Ē				Containers?	$\sqcup \sqcup$	$\perp \perp$
ate Required: Approved By: mail? x -Y kosala@ieinc.net			1		¥	Ms.							rije		C		de Volumes?	ЦL	IM
Email? x -Y kosala@ieinc.net			┨		<u>E</u>	主							울	ည	l	Correct P	reservation?	ЦL	1 W/
Sample Description/Location	Compto		5	Ě	age	age						-	otal Chlorine (mg/L)	Temp (°C)	200 200220		ce/Volatiles?	$\exists E$	
(as it will appear on the lab report)	Sample Date	Time	*G or	"Matrix	- CO	7.5	nter Numl	per of Con	tainers Pe	r Sample o	r Field Re	E Rate	-	₽	Courier/Tr		ple/COC Comr	mante	
1. 2A-ANA-413	08/02/2016		\vdash	+-	3	1		1		- Campie (T TICKET TO			26.8		Sam	piercoc com	nents	
2. ANA-414				200	1000			_	<u> </u>	 				_			100		
3. ANA-Field Blank	08/02/2016		۲	UW			:		-	-	-	8.30	2.4	26.1					
	08/02/2016		⊢	╀	3		_	-		100		ļ		<u>. </u>					
4. ANA-Trip Blank	08/02/2016	0800	Ļ	_	X3														
						0.=7,5000			_ ,				300						
		1339	Г				1000000								8.				
					-														
								_	-										
	1		Τ								-				ALS	Field Sen	vices: oPic	ckup	oLabor
			1	1					+			_				osite Sar	mpling oR	ental E	quipment
Project Comments:		LOGGED BY	/elon	aturak		ul	1	Zayl	//	FORIN	k fre	w. 150		Stan	oOther	_			
,				/_/	Ne K	(0)	age	N.L	EV (I)	111/0	DVD/	8	=		Specia	l Processing	_	ate Sample:	
REVIEWED		_	_	F .	0.000		//		ž		Ĭ	Data	CLP			USACE		ollected in	
Relinquished By / Company Name Date		-	Time			Received By / Company Name			Date	Time	Data Deliverabl	USA	CE		Navy	ᆀᄂ	Лич		
1 Company Kilarathan 08/0		-	1607		LINTER				8/7	1607	1	Щ				ᆜᆜ	_ nn ·		
3 (N) 8/3 5 (N) 8·3		1412 4 (OR) 9:3 1812 Reportable				Section 1													
5 (()0)		8.3	3 22 6 Danison 8/			8/3	2130			Lab 🗶 🔲 NC			_						
7			L		6								PWSID	_			Special	_ _×	DC
					10							.00	EDDS:	Format Ty	/pe-		1550/100	500	

te "Matrix - Al=Air; DW=Drinking Water, GW=Groundwater, Ol=Oil; OL=Other Liquid; SL=Sludge; SO=Soil; WP=Wipe; WW=Wastewater
ALS ENVIRONMENTAL SHIPPING ADDRESS: 34 DOGWOOD LANE, MIDDLETOWN, PA 17057

Rev 8/04